

FIG 1A

FIG 1B

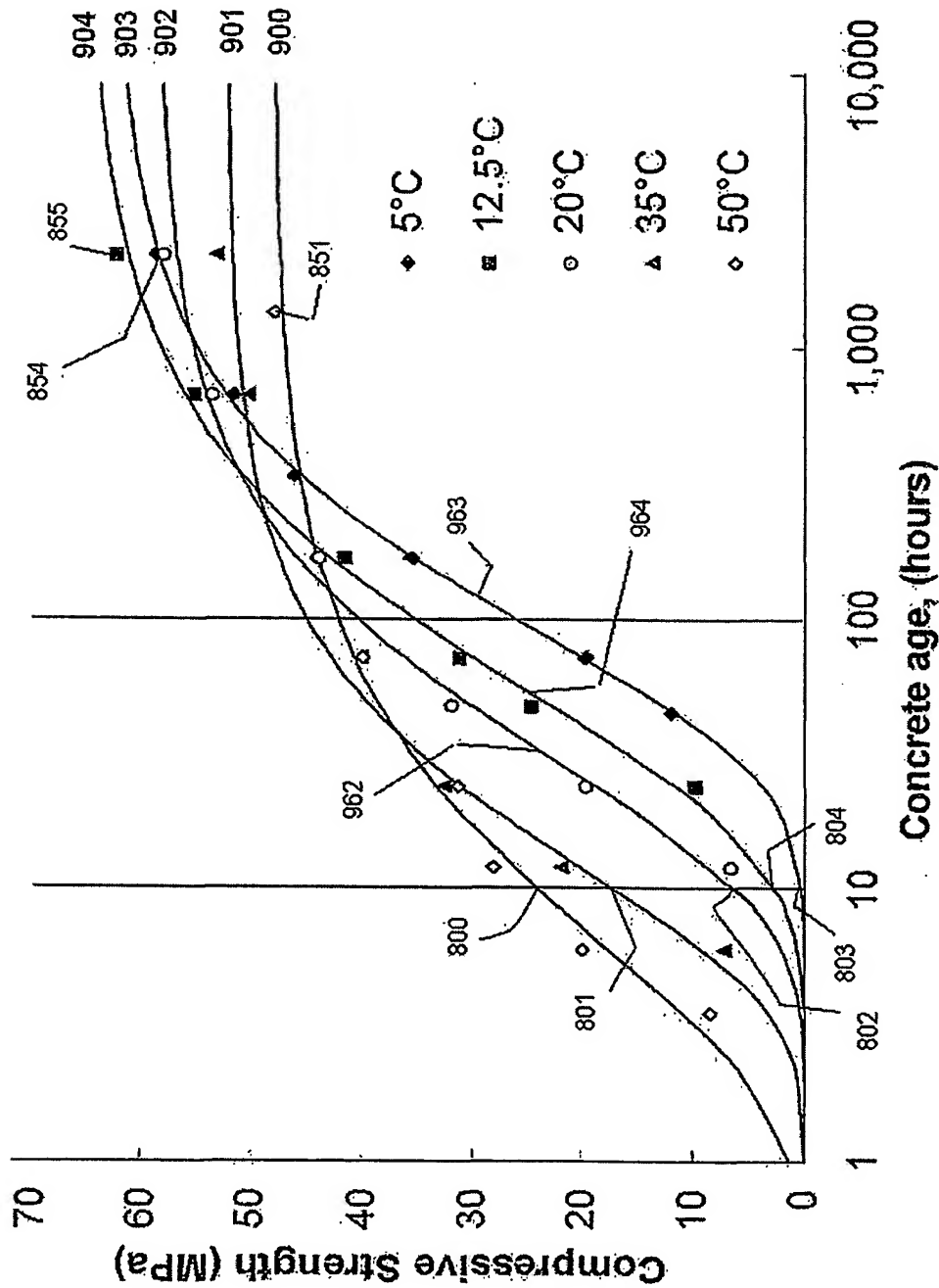


FIG. 2

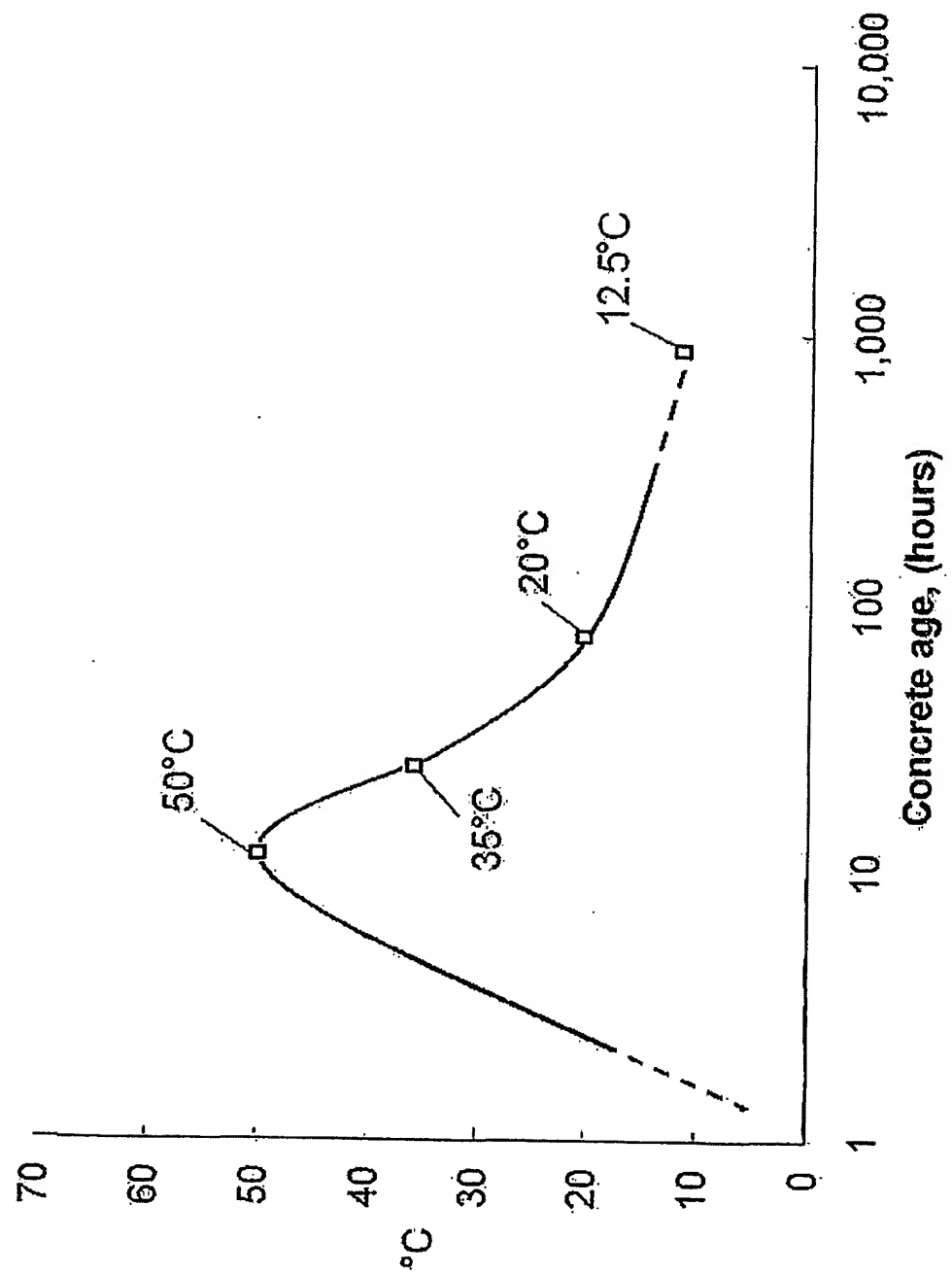


FIG. 2 B

Carbon Fiber Heating Properties

Time to Temperature & Heat Transfer Rates

Summary of Results

Data supplied by Reichhold Chemical

Fiber Architecture	Volts	Amps	Watts per foot	Time in minutes	Temp
2P50K	5	20	100	10	130F
2P50K	5	25	125	10	162F
1P6K	5	10	50	15	274F
2P6K	5	10	50	15	205F
2P6K	5	15	75	15	280F
2P6K	5	20	100	15	300F
3KUNI	4	15	60	10	115F
3KUNI	5	20	100	10	145F
6P12KCL	4	15	60	15	160F
6P12KCL	4	20	80	12	176F
6P12KCL	5	25	125	12	239F
3P12KTRIAx	5	10	50	10	184F
3P12KTRIAx	5	20	100	15	300F
AL Coated Glass 3	5	20	100	15	250F
Copper Screen	1.5	70	105	5	85F

The above table contains test results verified at Reichhold Chemical. The basis of comparison is as follows: 2 square foot piece of carbon fabric drew 100 watts and achieved 130F in 10 minutes.

FIG. 2C

HEAT RATE
8 VDC (3.8 VDC/LF)

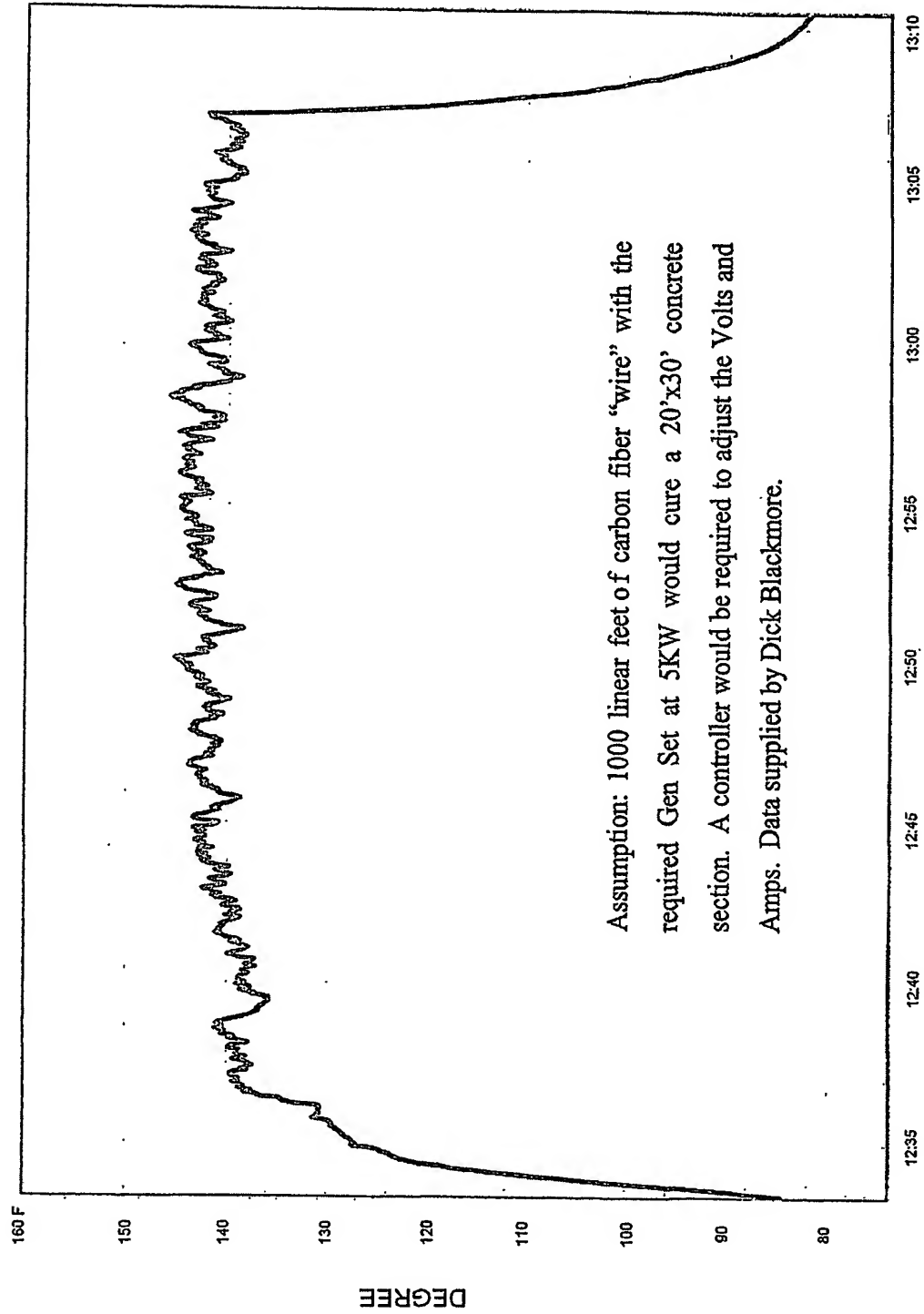
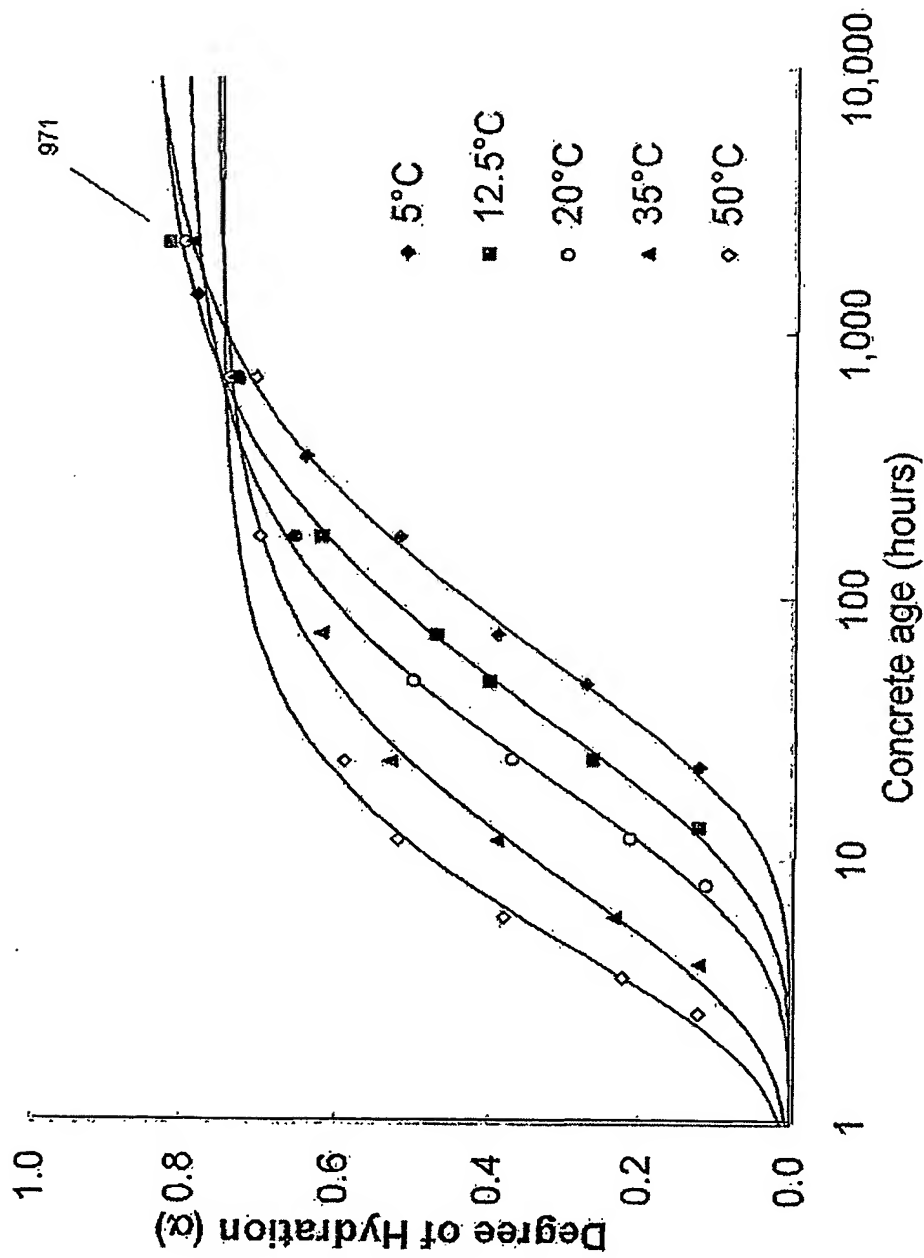


FIG. 2D



Degree of hydration results for mortar, 0.5 w/c

FIG. 3A

Results after applying FHP activation energy

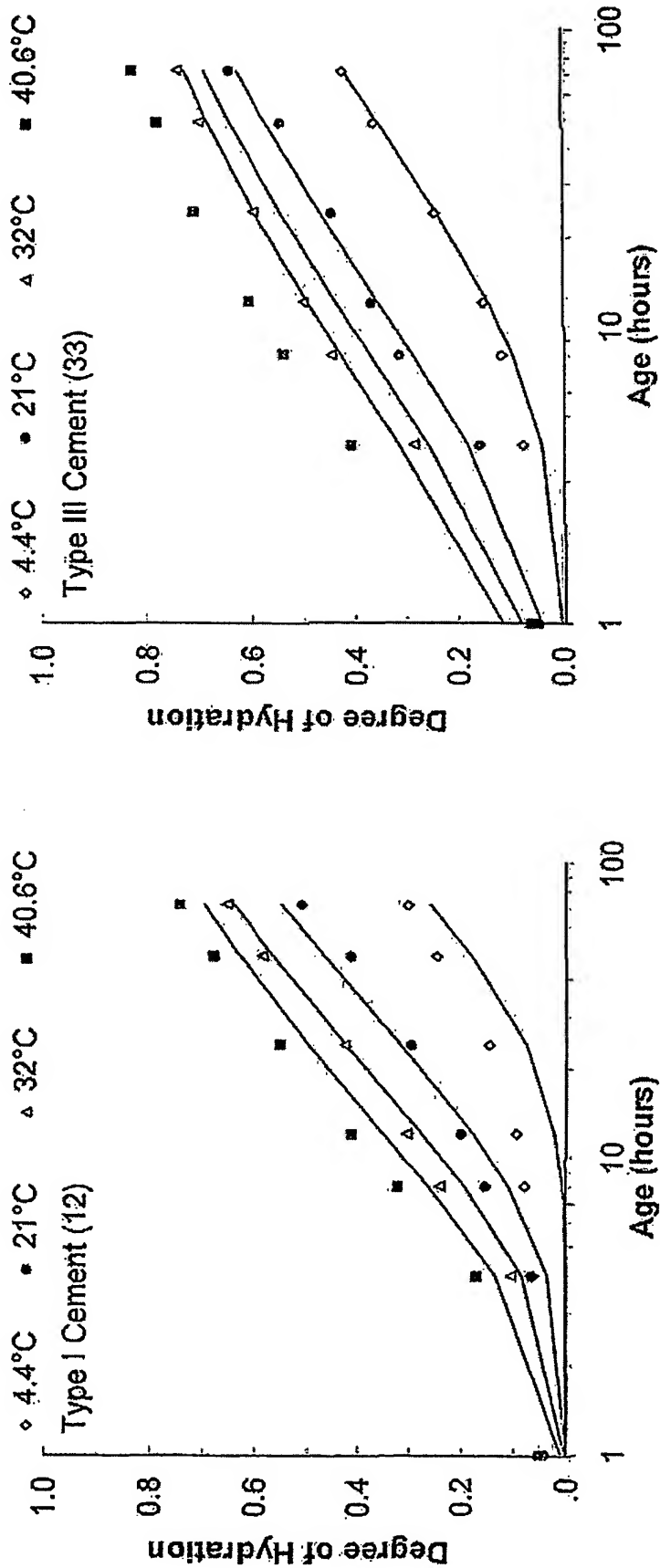
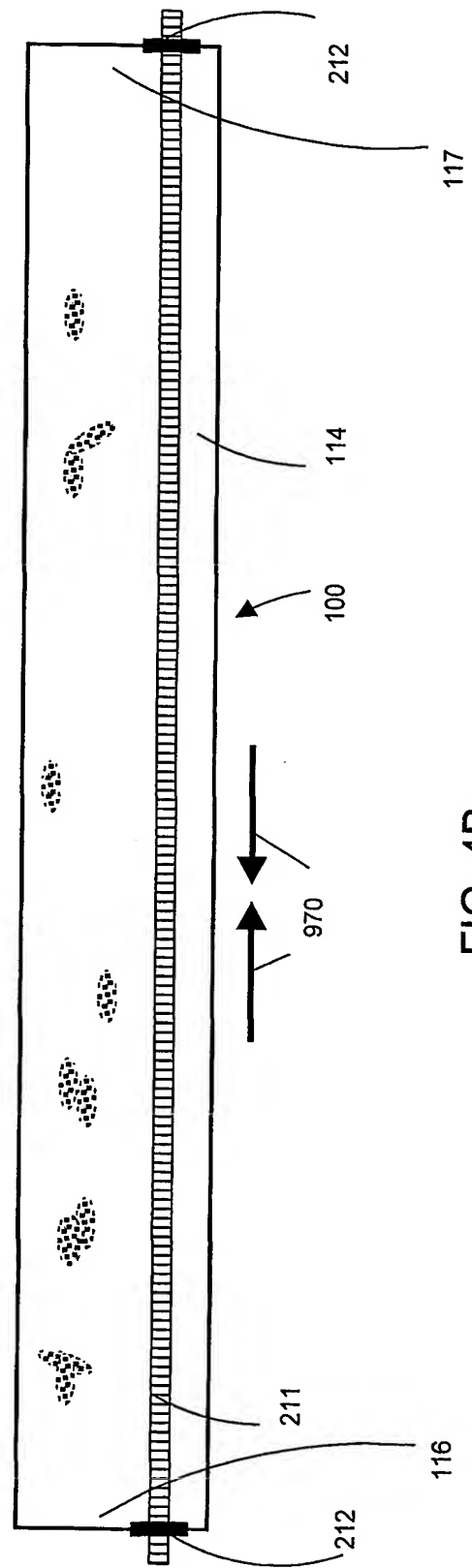
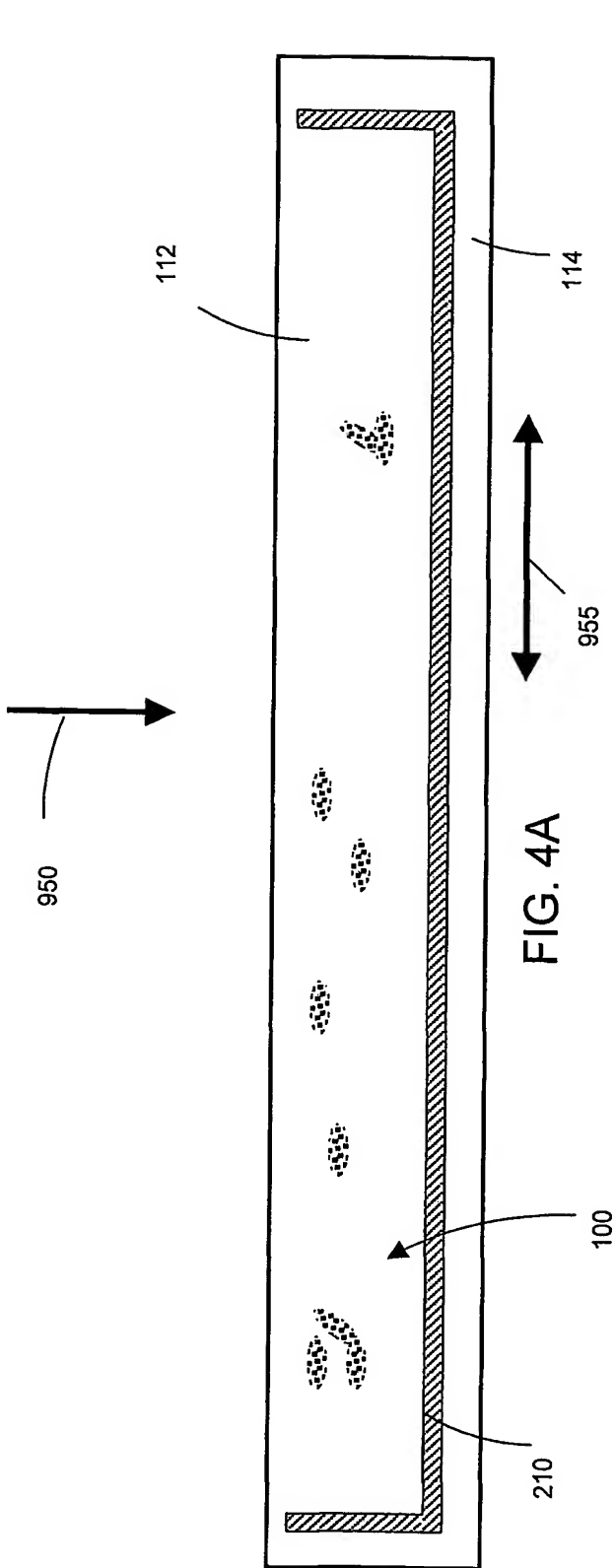


FIG. 3C

FIG. 3B



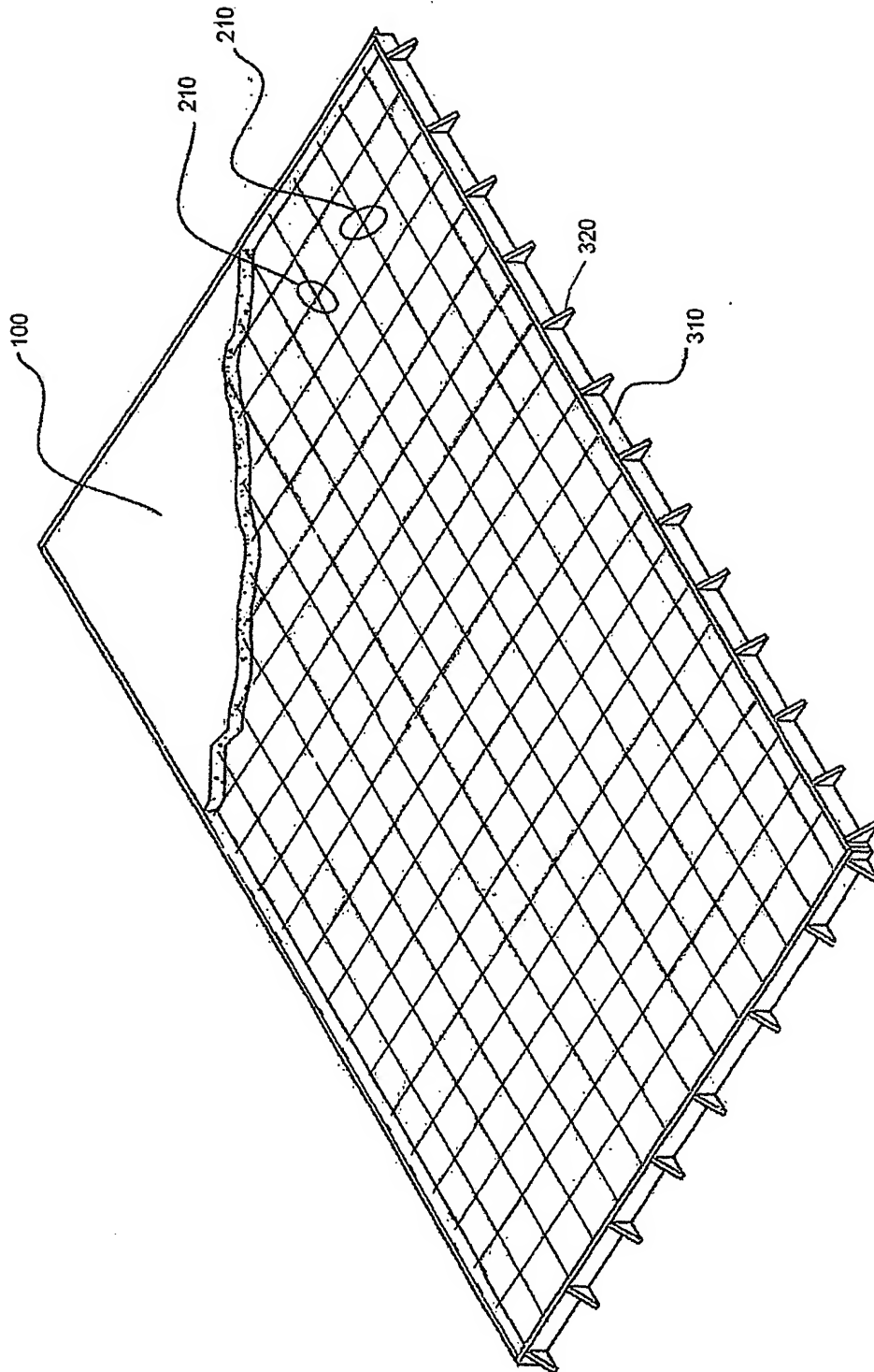


FIG. 5

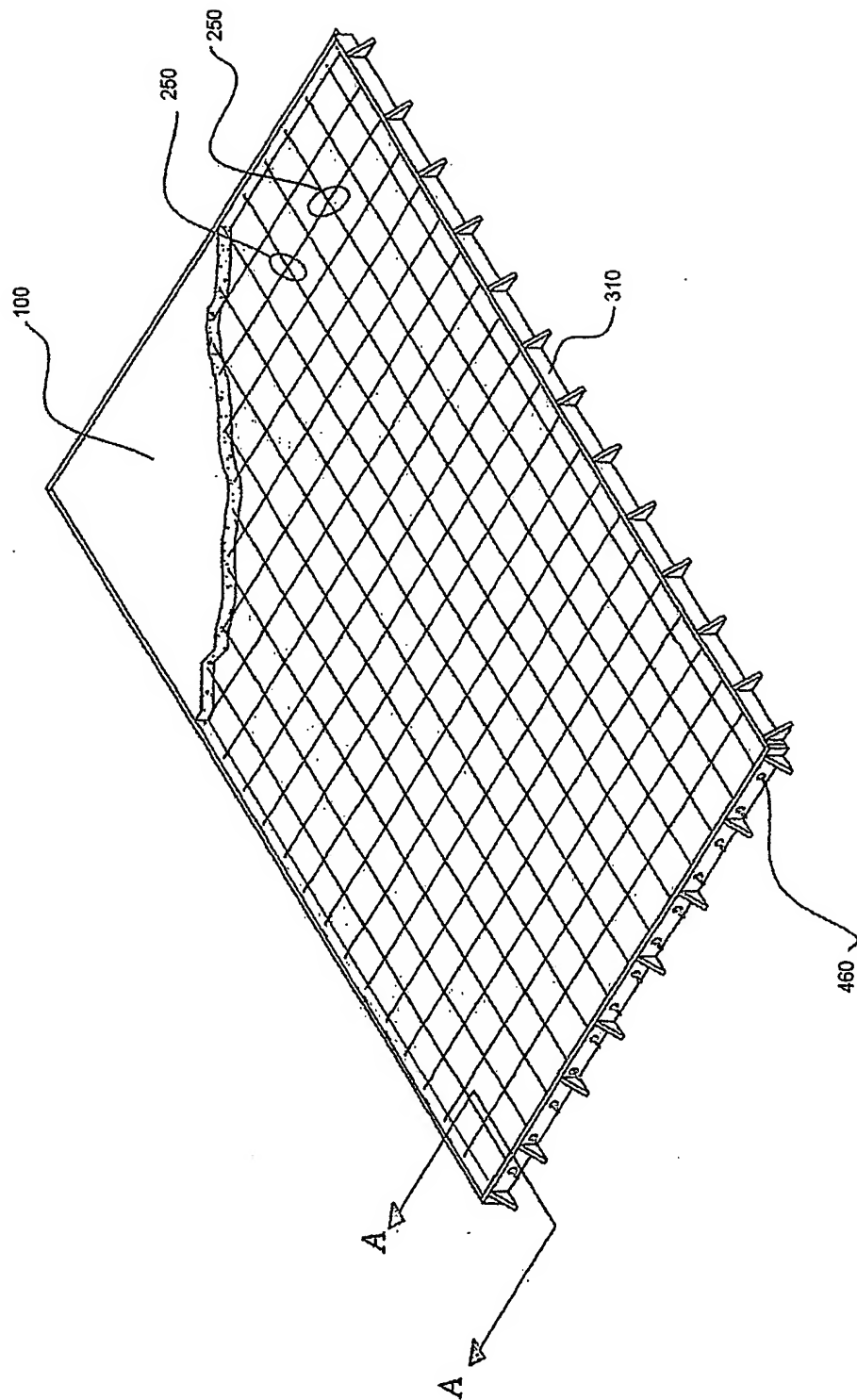


FIG. 6

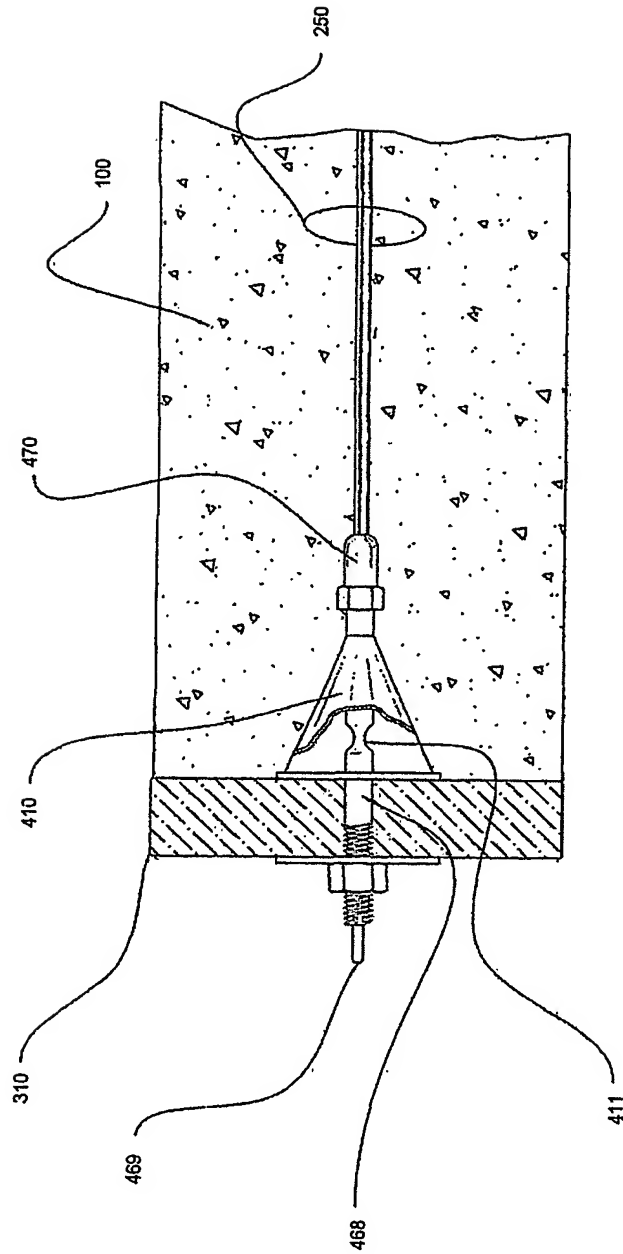


FIG. 7

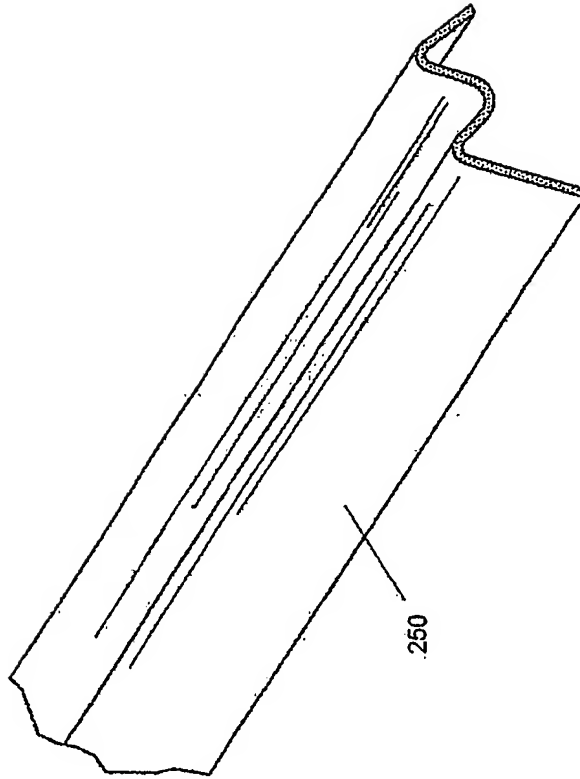


FIG. 8

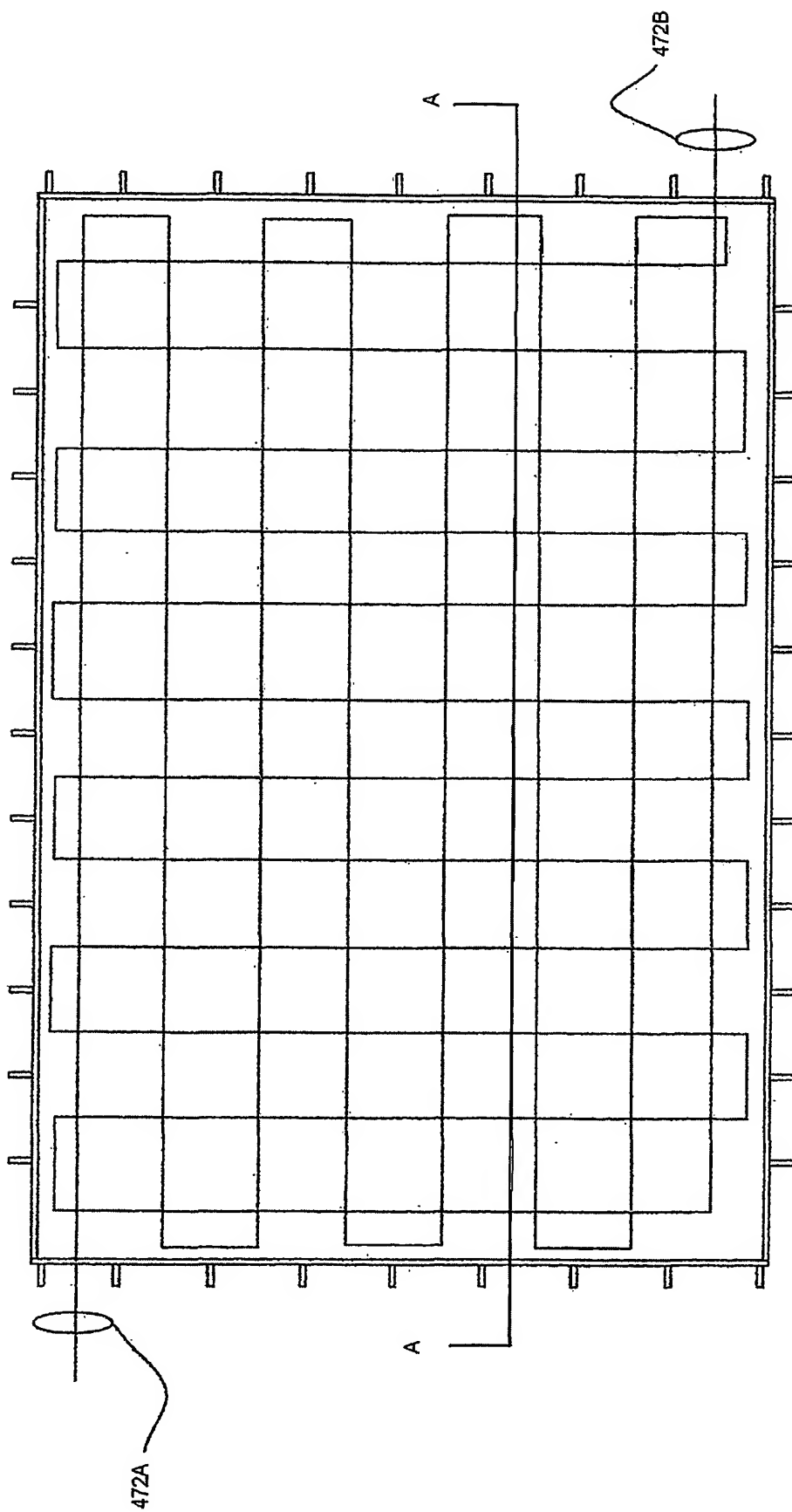


FIG. 9

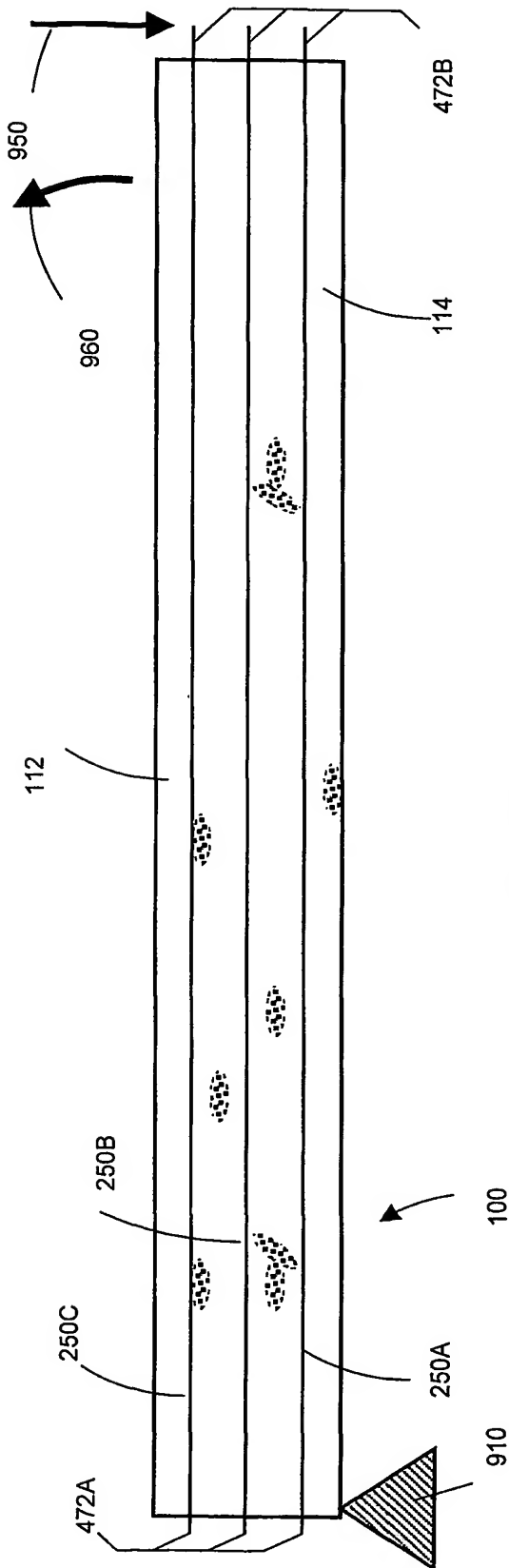


FIG. 10A

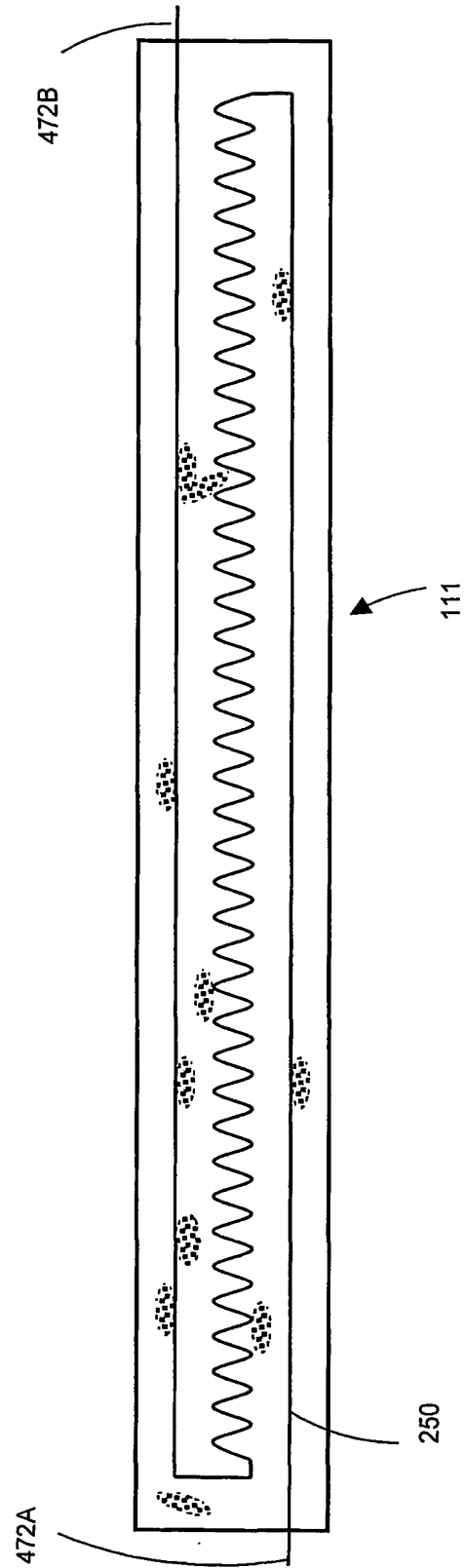


FIG. 10B

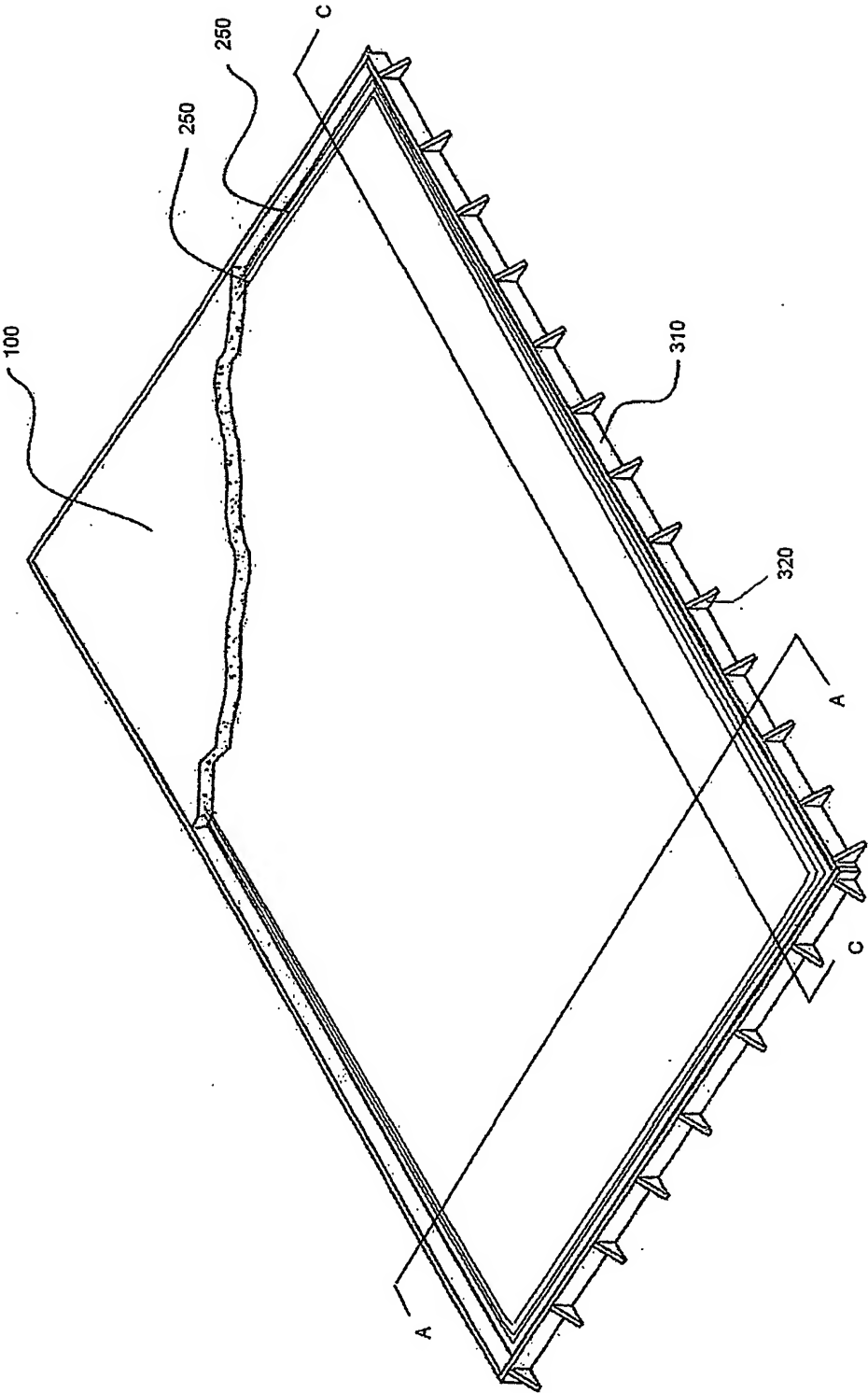


FIG. 11A

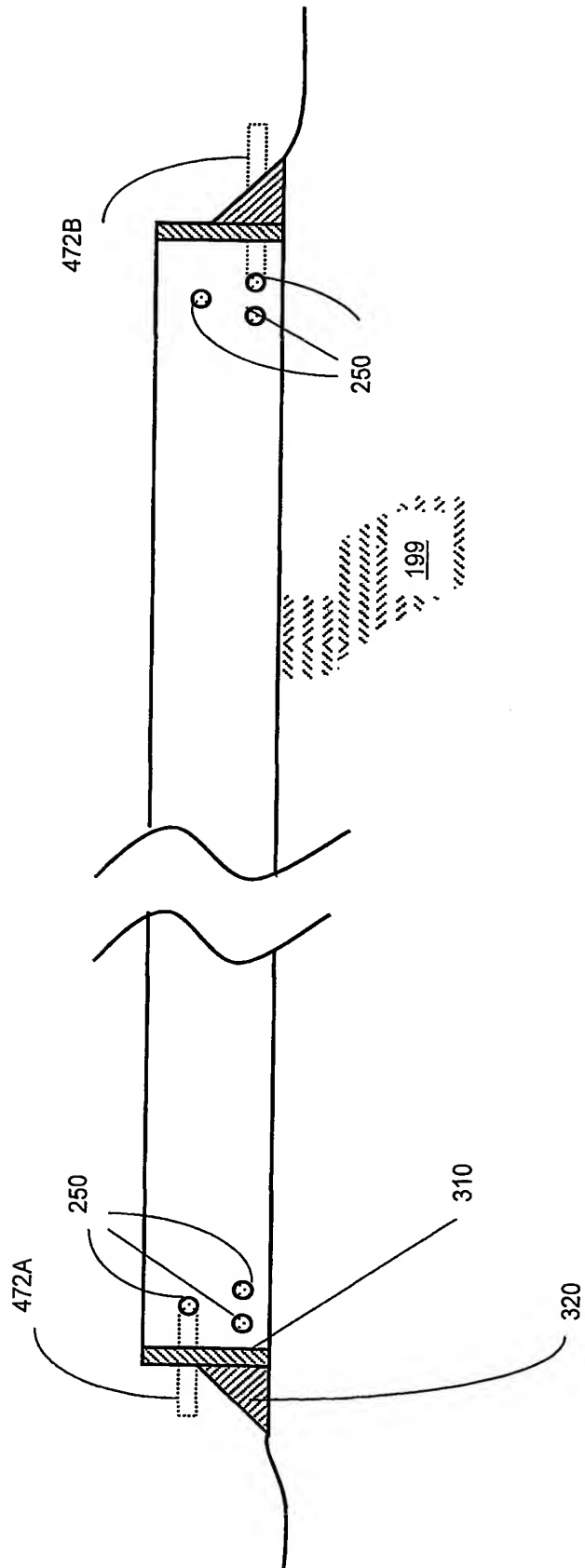


FIG. 11B

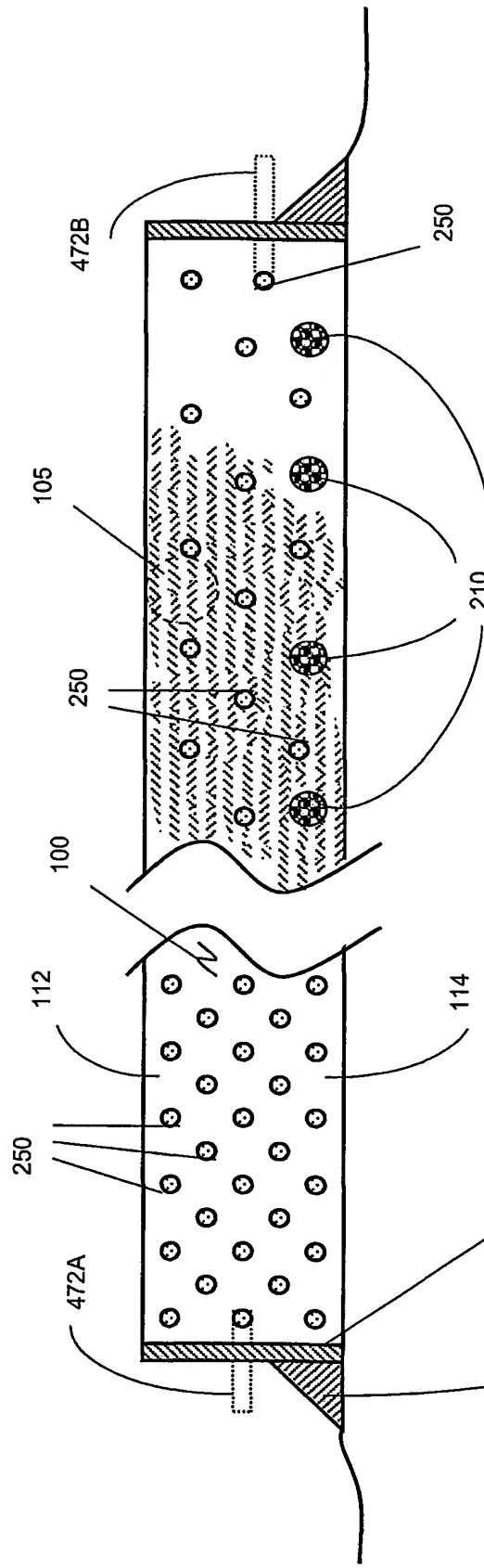


FIG. 11D

FIG. 11C

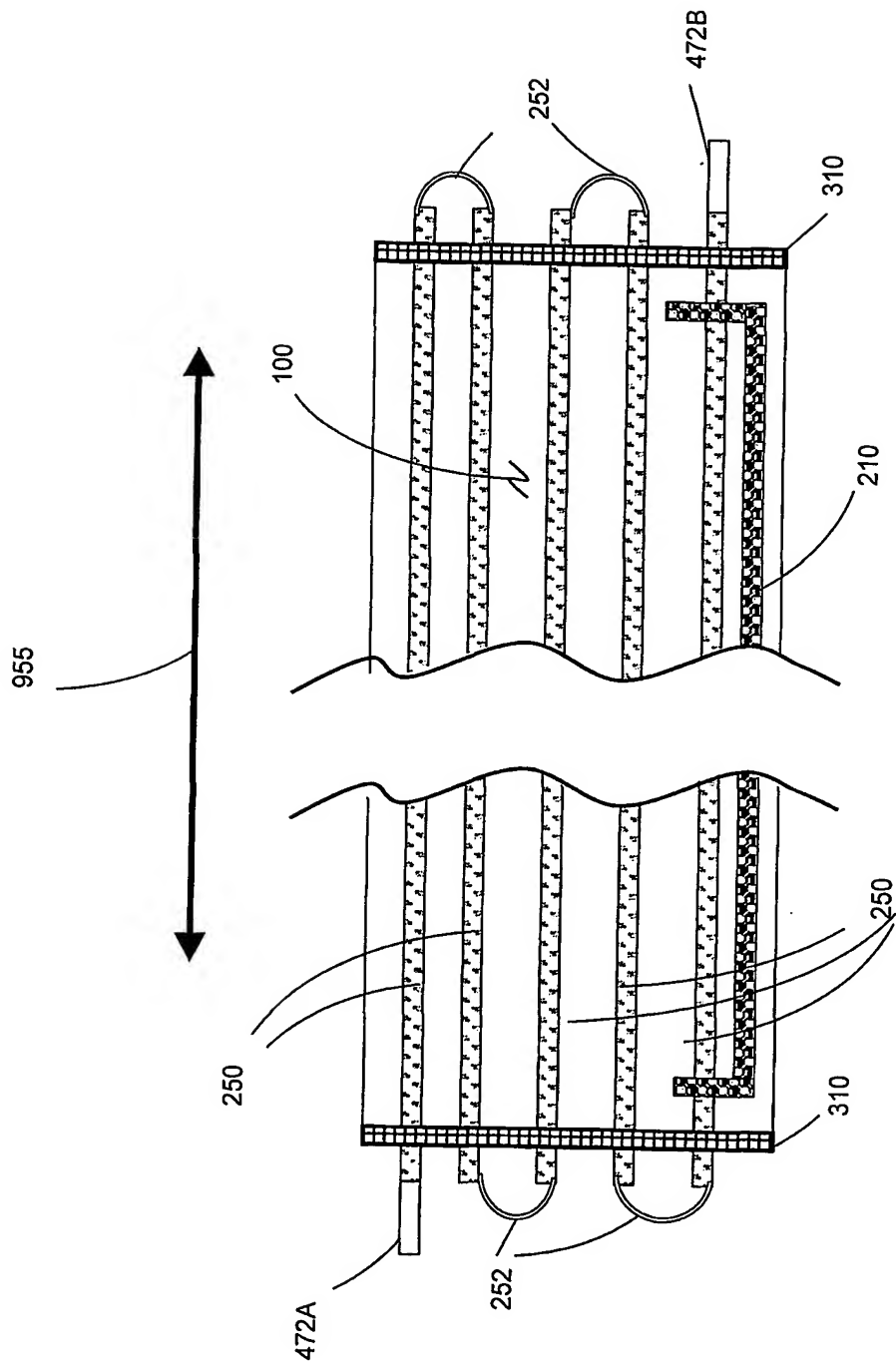
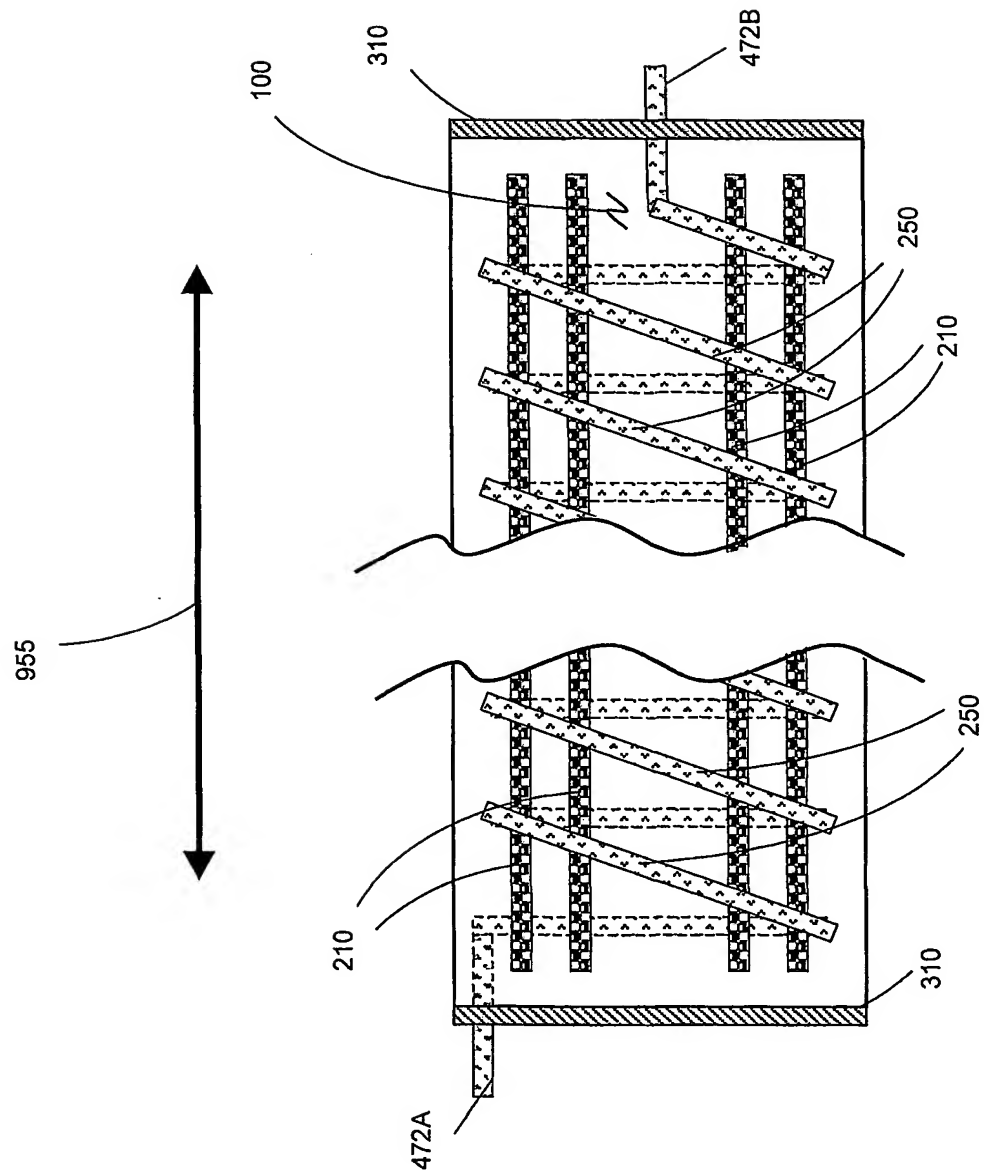


FIG. 12

FIG. 13



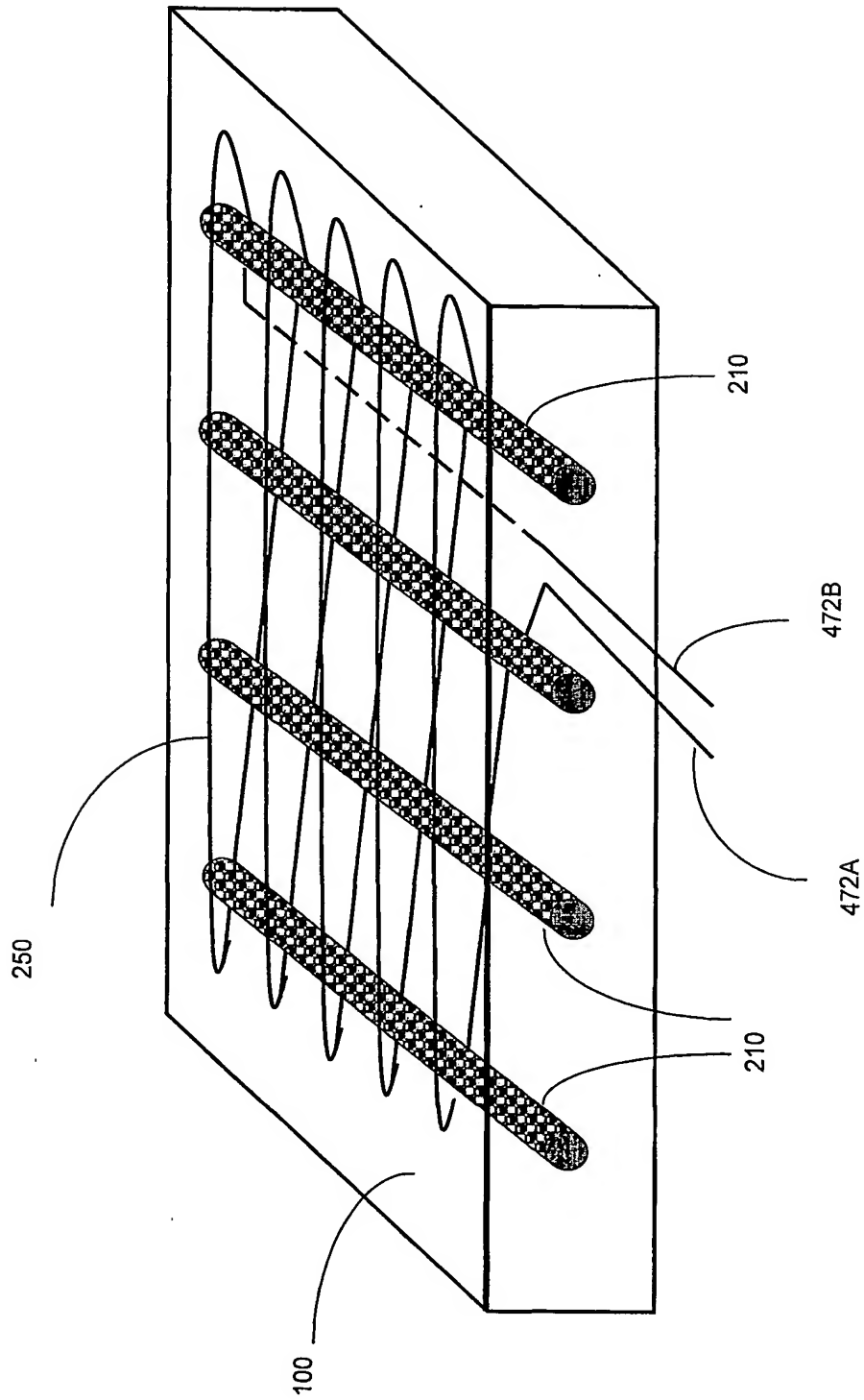


FIG. 13A

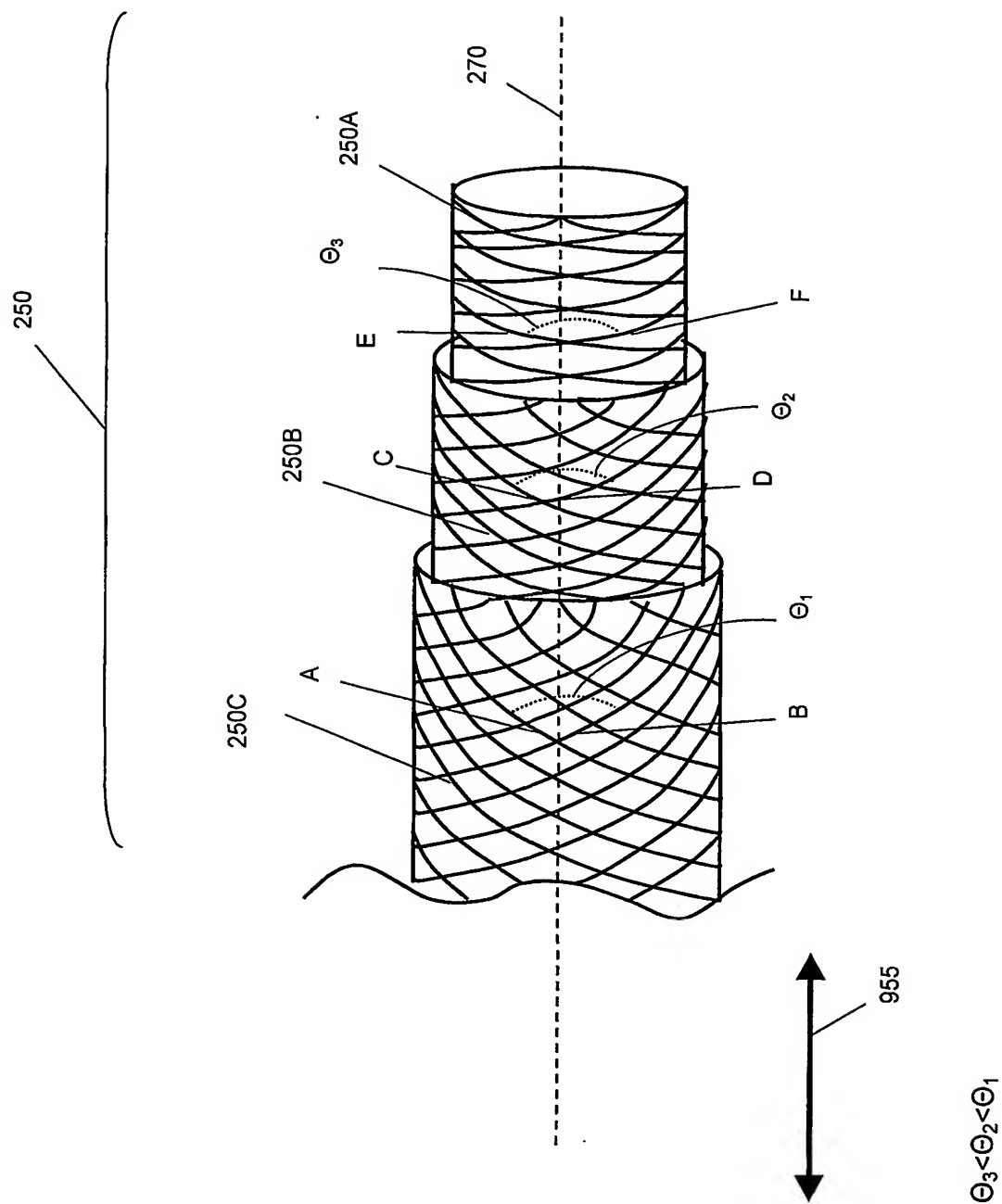


FIG. 14

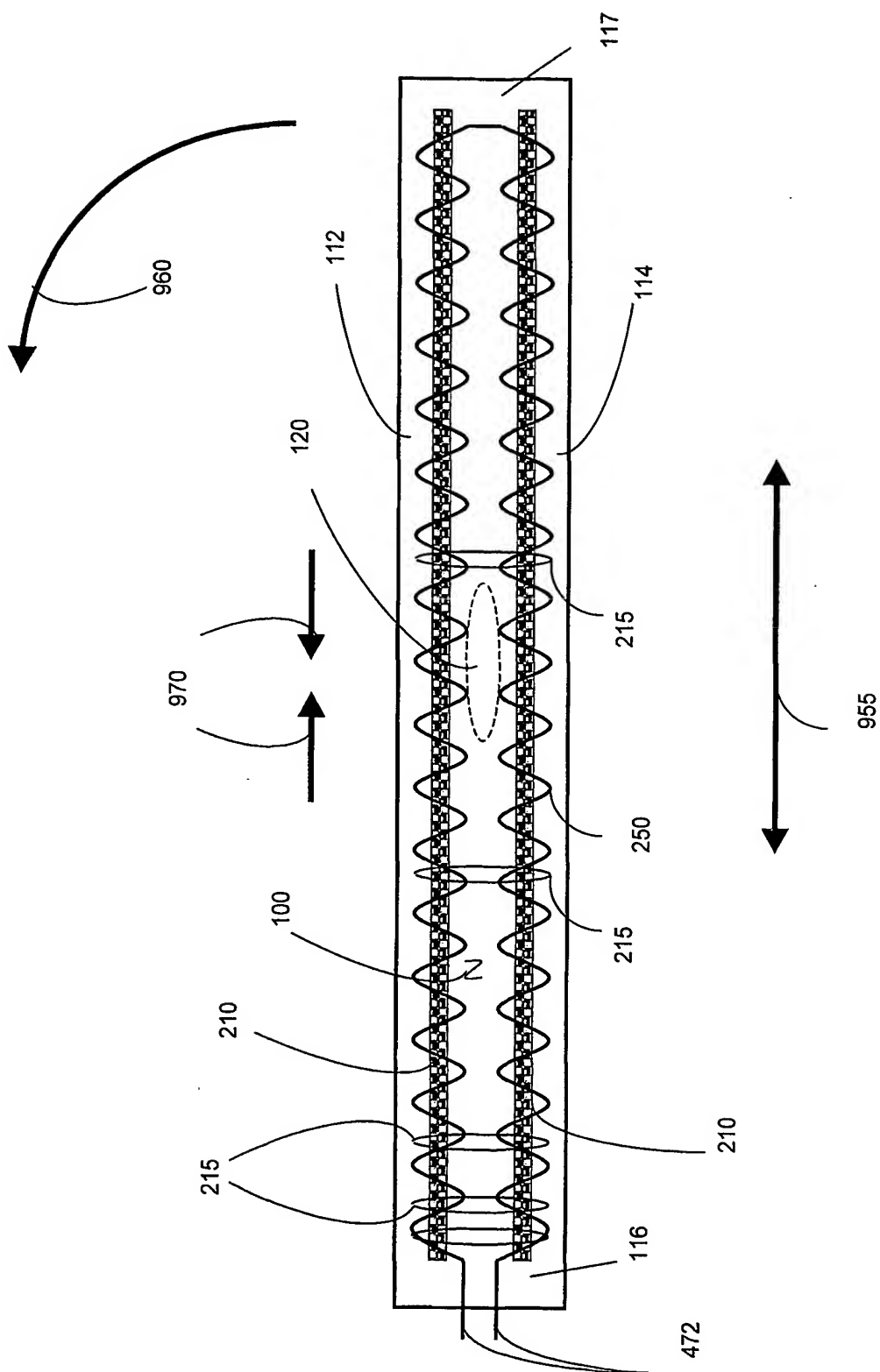


FIG. 15

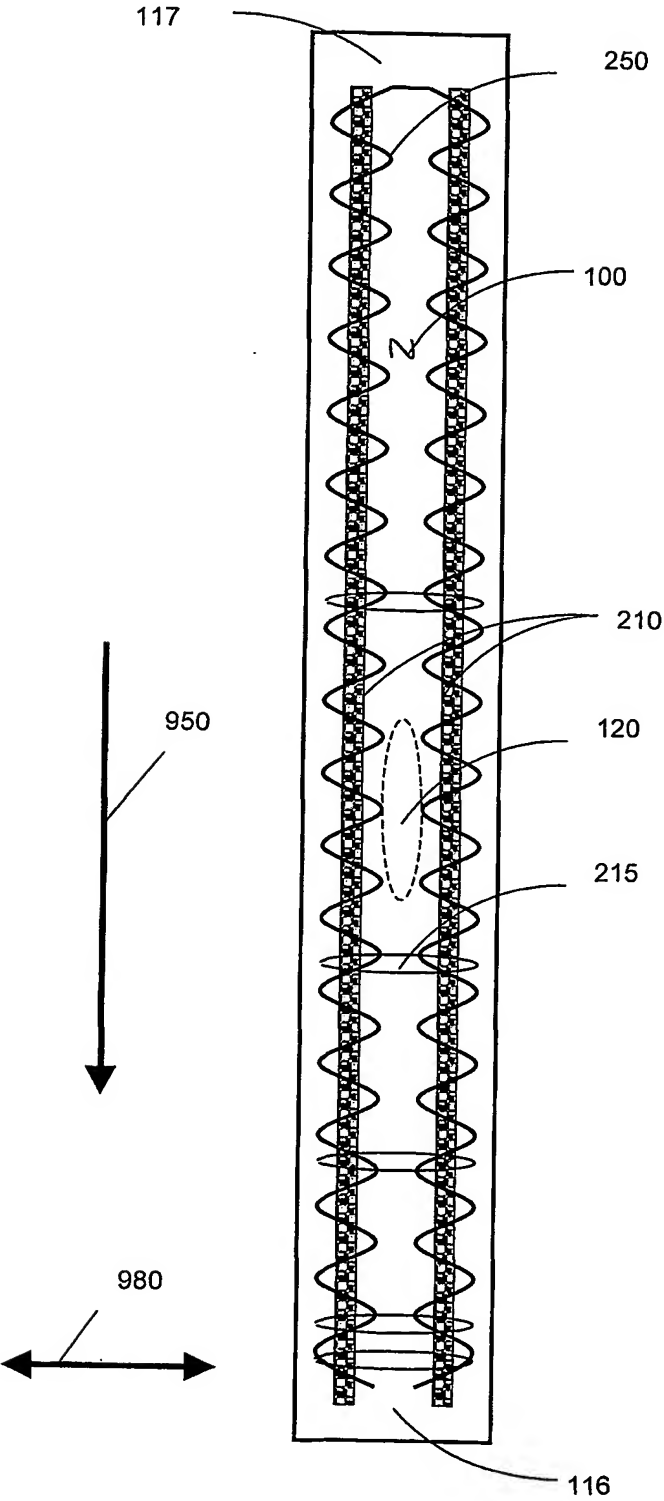


FIG. 15A

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